

FIG. 1A

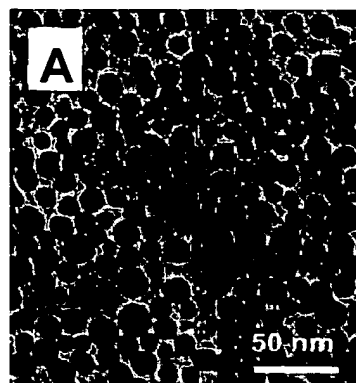


FIG. 1B

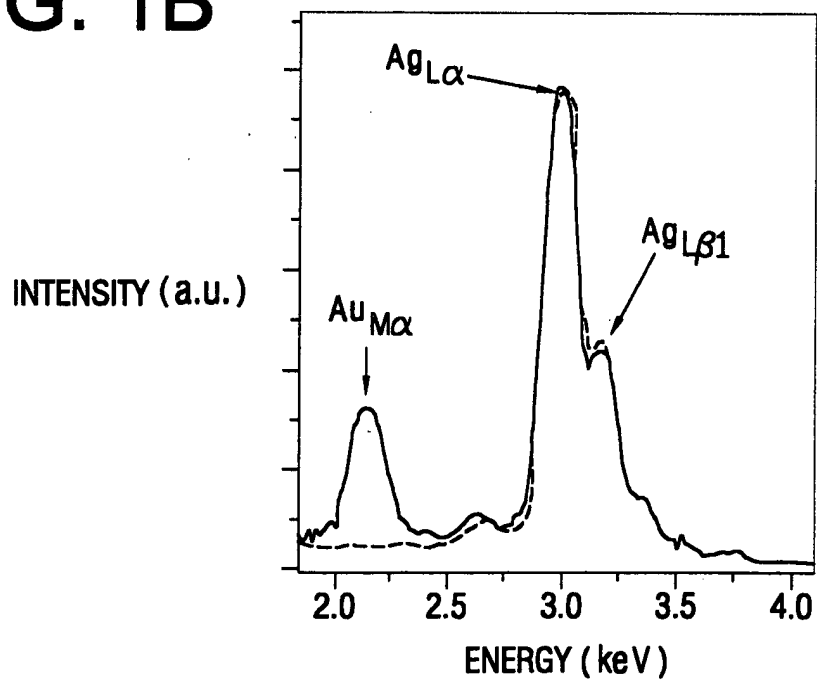


FIG. 1C

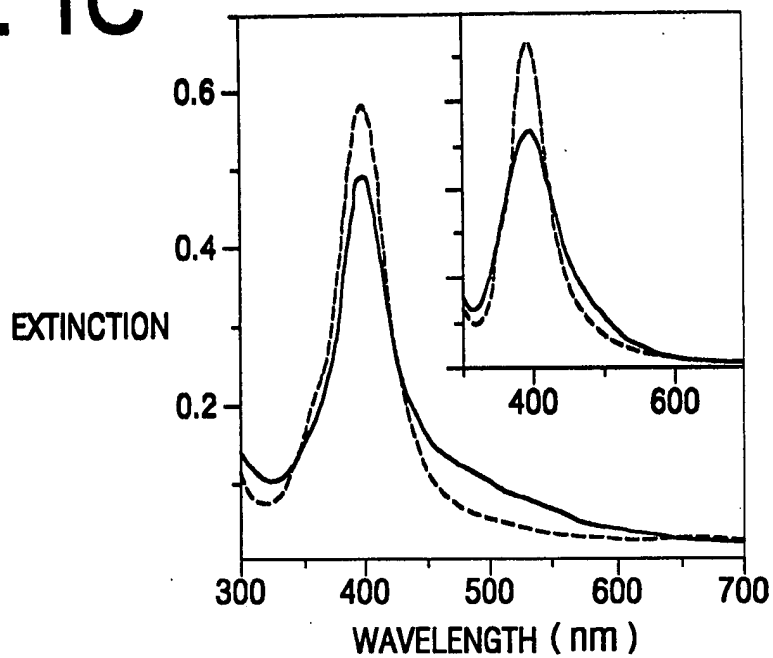


FIG. 1D

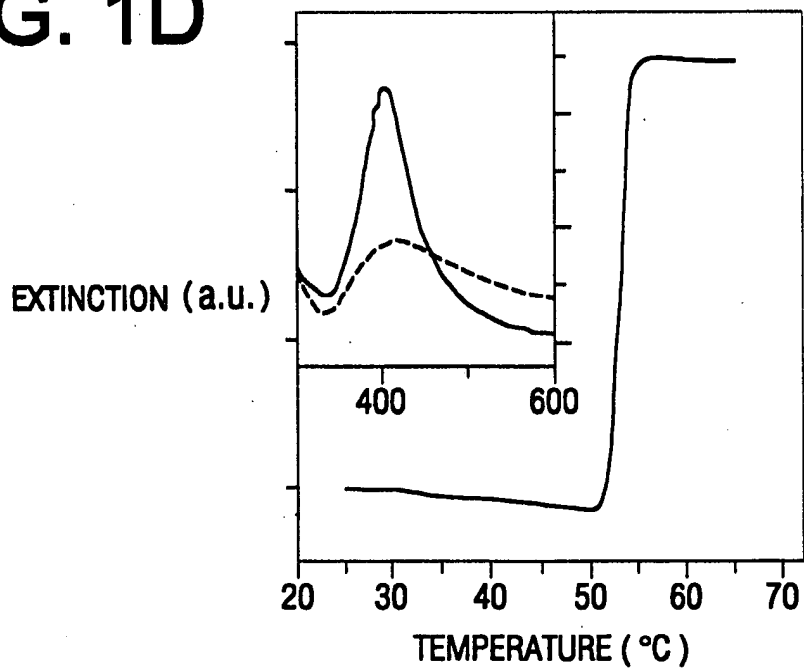
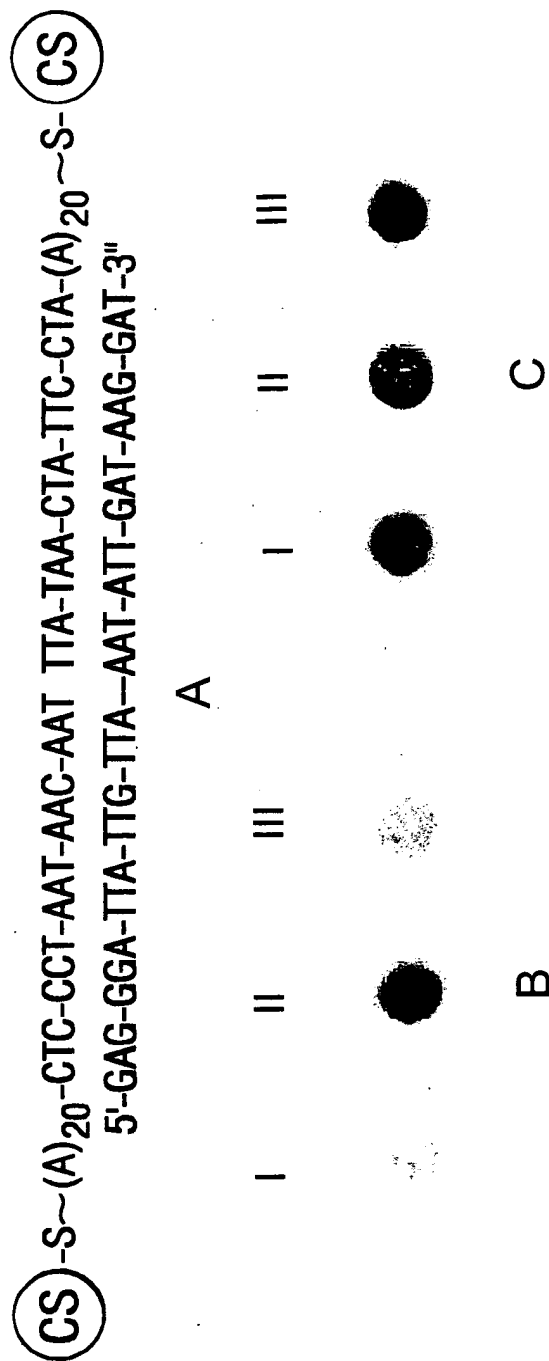
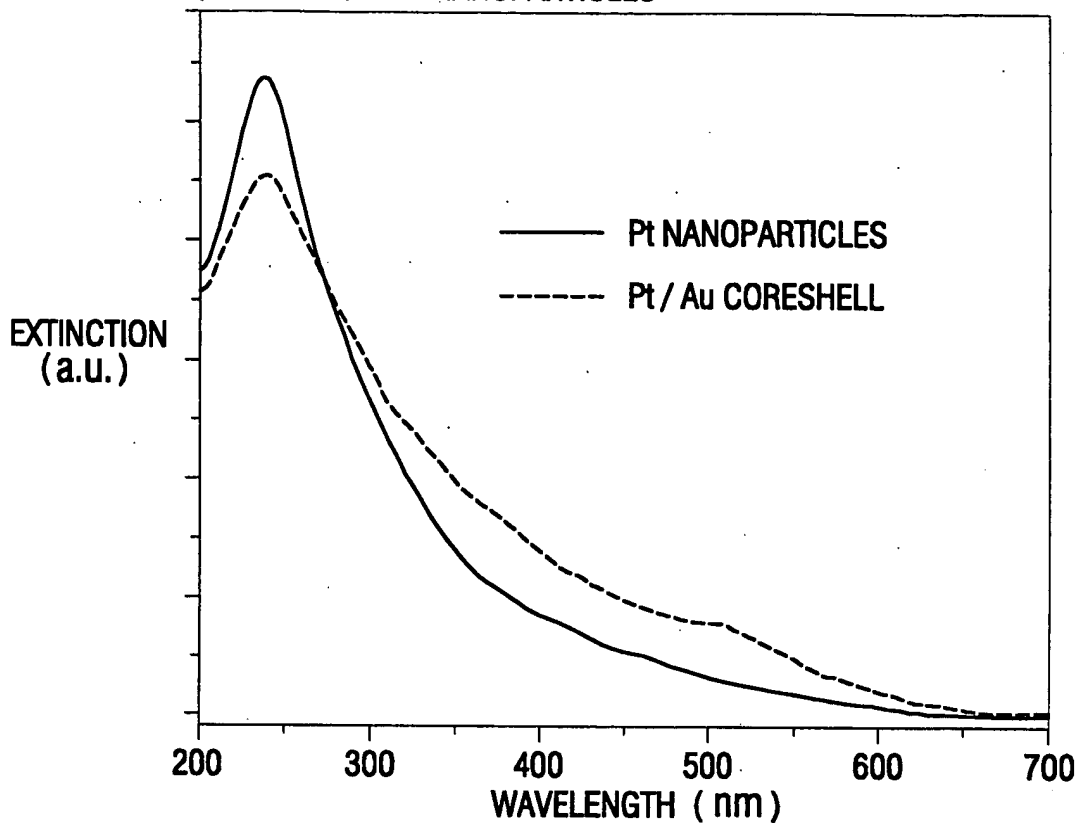


FIG. 2



UV-VIS SPECTRA OF Pt AND
Pt / Au CORESHELL NANOPARTICLES

FIG. 3



GROWTH OF Au ON THE SURFACE OF
Fe₃O₄ NANOPARTICLES

FIG. 4

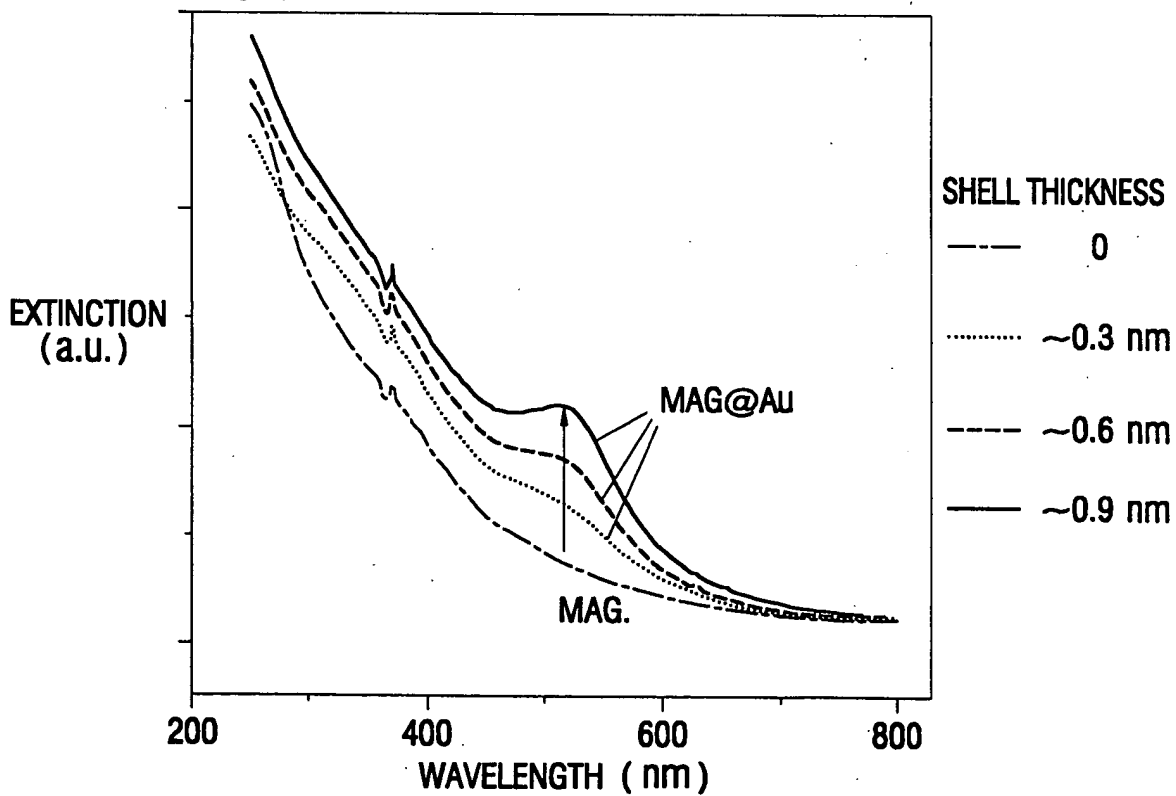


FIG. 5

MAGNETIC PROPERTIES OF GOLD COATED Fe_3O_4 NANOPARTICLES

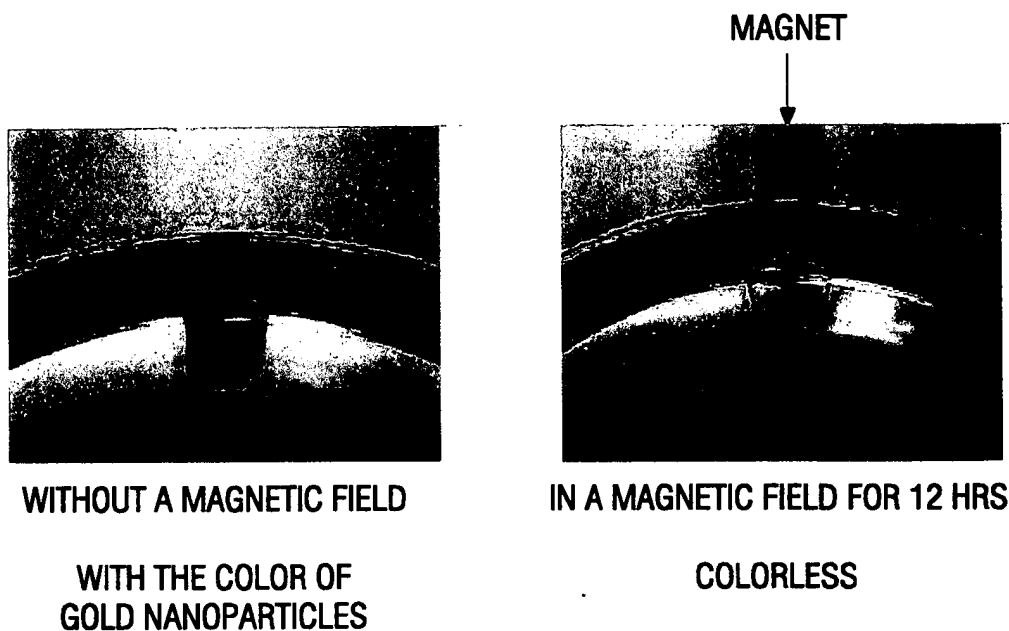
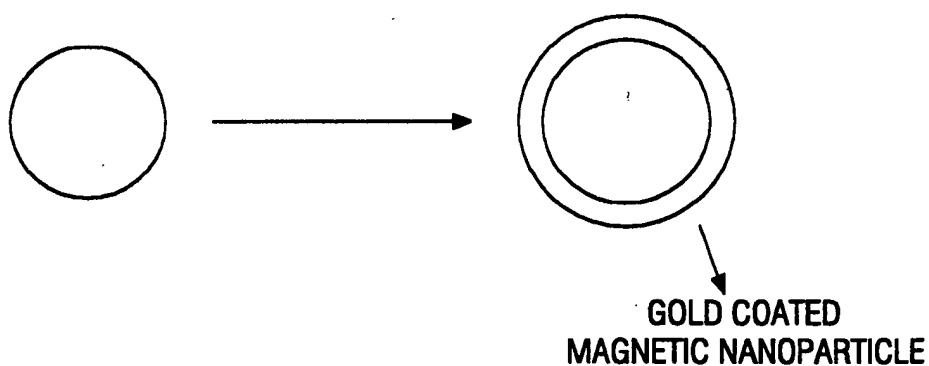


FIG. 6

CORESHELL APPROACH TO MAGNETIC GOLD NANOPARTICLES



A: METAL OXIDES MAGNETIC CORES: Fe_3O_4 , Co_3O_4

B: PURE METAL CORES: Fe, Co, Ni...

C: ALLOY METAL CORES: FePt, FeAu

FIG. 7

